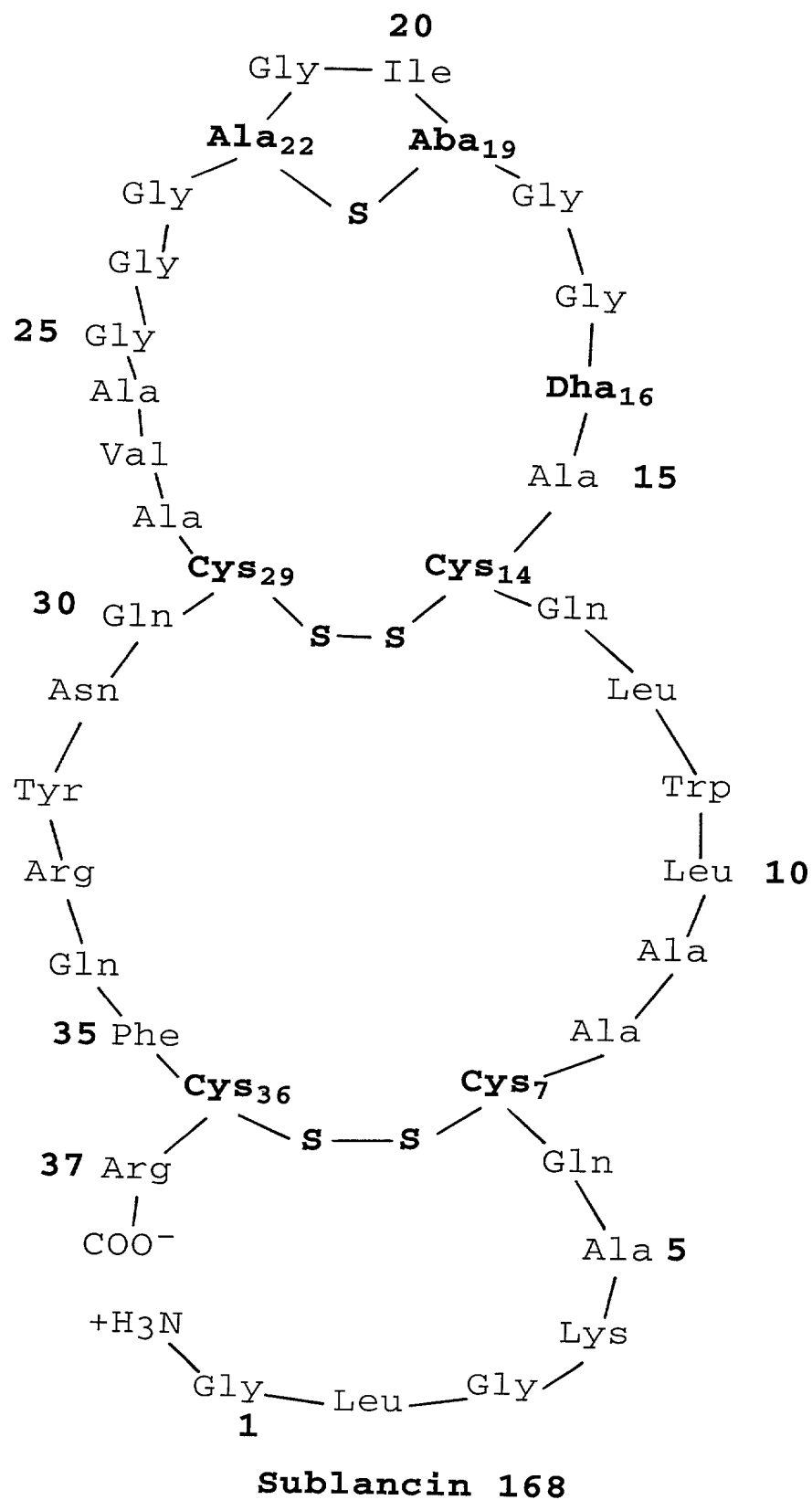


Fig.1



205TED" DECH6860

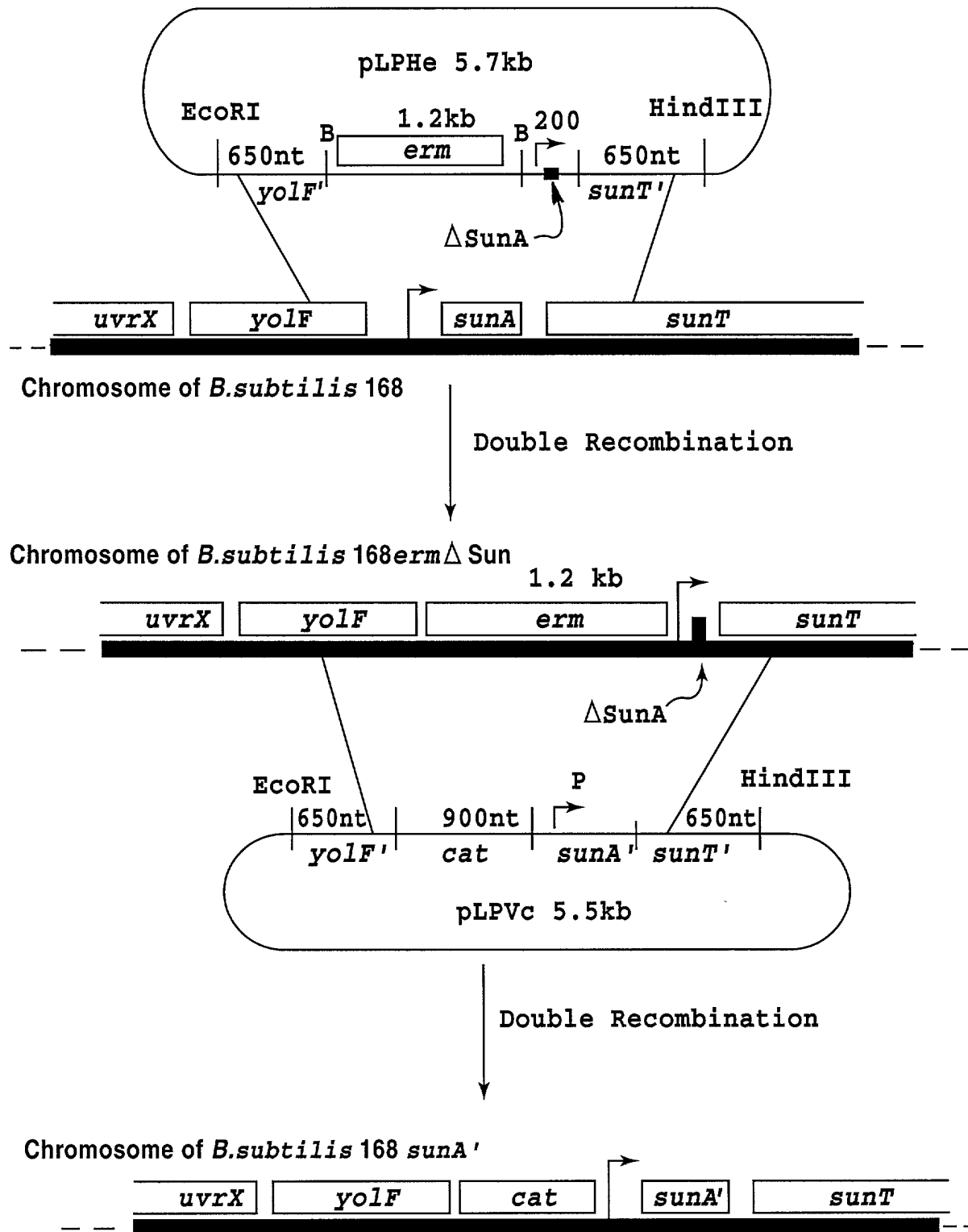


Fig.3

ECORI

ptZ sequence <-----GAATTCGGCTCTAAAGCGAT  
TCTGAGAGCAGTTTCTTATACACAGCAGGAACCTGCACCTTCAACGAGCTGGATTAAACAGTGGGCATAAG  
AGTTAAGATAAAATTTAAACTTATATACACATCGCTTAAAGTTTCTTTTGTATTAAACACTTAAACAAACAT  
GGTAAAAATTATATAAAACATAAAGAAAGAGTGATTATATGGAATATGTAATATGATAATCATTTTATTATA  
GCACCTTTCTTTTATTTTACTGTTTTCCTAAATACACGTTATAGTTTGTATGATAAAATAGCTTAGCTTTAA  
AATTGGTTTATCTAAACACAGAAATTCCAATTAATCAATAGTTAGTATTAAGAGTCAGACAAAGTATGG  
AGTTGCAGATAATATCGATTATATAAAATTTGGTATGCCATATGCTCAACCCAGATAGAAATTGTTATTGAAACT  
ACAAATAAGCGTTTCTAGTTTCTTAAATGGAGCTCAACAAATTTATTTCAAAAGTATAAAAGGGTTAGTG  
TTTGAACATATAAAAGTACCTTCTTACAATAGAGGTACTTTTGTATCTATATAATTATTAATAATTTTAC  
CTAAATTTTATCATTTATTAATTCAAAATAAATCCATAATAGTCAATTTTATTTAGTGTATTACAACCAA  
Bam HI ( ~900 bp ) Bam HI  
TTC GGATCC <----cat-----> GGATTCGTGTATTACAACCAATTC TGTTTATTGATAGGTAATAAA  
GTTTTTTTCTATGATTTATGAACAAAGTTTCCCTTATAAATTTTCAAA  
AAAAATAAAAAATATGTTGAATTTAGATTATCTTCTTTATATATAAAAAATGTAATCCGGATTGCAA  
| **Sublancin leader** -----> **xho I**  
ACAAATGGGGAGGTTTACAA **ATGGAAAAGCTATTTAAAGAAGTTAAACTCGAGGAACTCGAAAAACCCAAA**  
| **Sun A** ----->  
**AAGGTAGT GGATTAGGAAAAGCTCAGTGTGCTGCGTTGTGGCTACAAATGTGCTAGTGGCGGTACAATTGG**  
**TTGTGGTGGCGGAGCTGTTGCTTGTCTAAAACTATCGTCAATCTGCAGA** Pst I | TAAACATTTGTAGAGGGAAT  
ATTTTAAATATCCCTCATATTTAAAGCGGGGATTGAAATTGAATAAGAAAAAATAATGTTCATACTA  
AACAGTTTAAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTTTAAAGTTTCATAACCTTAACTA  
TGGAATTGATTCTTACTAGACCTAAATTGGGGATAAGGAAGCTATAGTTTAAGAGACTTAATTTGTATT  
TTTAAGAAGATGGGATAAAAACTAGGCCACTTGAAATTGCAAGAAAAATAAGACATTCGAAGCCCTAAAAAC  
AAATAAAGCTCCCTTGTATAGCTTTGTAGAAGGGGAGGAATATGGACATTACATAACAAATATACGAAAT  
TAGAAATAACTATTACTTGTAGTGATCCTGATAAAGACAAAAATACTAAAAATAAAAGAGGATTTT  
GAAAGTAAATTCACAAACTTTATATATAGAAATTGACAAAGAGTCAATTCCTGAAAAAGAAAAAGATCAAA  
AAAAACATCTTACTTTTAAAGGACATACCTTTTAGAAATAAAATGATCGTTTTTGTGATTTTATTGAC  
TTCCCTTGTTCGTTGTGGGCTTTGCTGAAGCTT----->ptZ sequence  
HindIII

Fig.4



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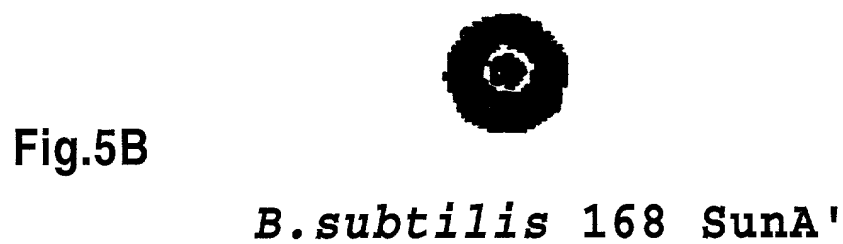
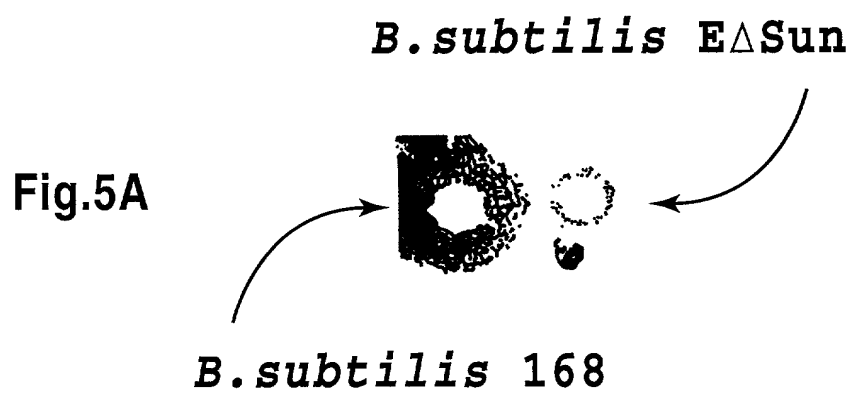


Fig.6

pLPcat                      Sublancin leader →  
TTGCAAACAAATGGGGAGGTTTTACAA ATGGAAAAGCTATTTAAAGAAG  
MetGluLysleuPheLysGluV

XhoI                                      sublancin prep-  
TTAAACTCGAGGAACTCGAAAACCAAAAAGGTAGT GGATTAGGAAAAGC  
AlLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl

tide →  
TCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT  
aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

KasI  
GTGGTGGCGGCGCCGTTGCTTGTCAAACTATCGTCAATTCTGTAGAGGT  
ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

His Tag →                      Stop                      PstI  
GGTGGTCATCATCATCATCATCATATTAGAGTCCCTGCAGATAAAACA  
GlyGlyHisHisHisHisHisHisHis \*                      pLPcat →